

IN THE CLAIMS:

Please cancel claims 1-25. A complete listing of all claims follows.

Claims 1-25. (cancelled).

26. (original) A drilling device for producing undercut holes, said drilling device comprising:

a drilling tool comprising a drill shaft that defines an axis of rotation of said drilling tool and a cutter carried at an end region of said drill shaft such that, in use, it drills a hole having a longitudinal axis that is radially offset with respect to said axis of rotation; and

a centering device operable to apply a lateral force to said drilling tool for moving said axis of rotation towards said longitudinal axis to cause said cutter to form an undercut in a said hole, said centering device including;

a centering member that is movable from a non-operative position outside of said hole to an operative position inside said hole in which the member is positioned between said drill shaft and a wall defining said hole so as to provide said lateral force;

an operating device connected with said centering member by which an operator can move said centering member from said non-operative position to said operative position;

a depth stop device by which a drilling depth of said hole is set; and

a control device for said operating device, said control device being configured to prevent movement of said operating device by which said centering member is moved from said non-operative position to said operative position until said drilling tool has drilled said hole to said drilling depth set by said depth stop device.

27. (original) The device of claim 26, wherein said control device comprises a gate member defining a slot for receiving a portion of said operating device, said slot being configured to prevent movement of said portion that would move said centering member from said non-operative to said operative position until said drilling tool has drilled said hole to said drilling depth set by said depth stop device.

28. (original) The device of claim 26, wherein said centering device further comprises a support device to be mounted to a drilling machine and support the machine against a part being drilled, at least when said undercut is being formed,

said support device comprising a first support member and a second support member telescopically connected with said first member,

said first support member having a first part of said control device which first part is provided with an aperture through which a portion of said operating device extends, said aperture defining a first movement path for said portion of the operating device, said first movement path having a first portion configured such that when said portion of the operating device is received therein said operating device cannot move said centering member from said non-operative to said operative position and a second portion configured such that when said portion of the operating device is received therein said operating device can move said centering member from said non-operative to said operative position, and

said second support member having a second part of said control device which second part is provided with an aperture through which said portion of the operating device extends, said aperture of said second part defining a second path along which said portion of the operating device can move, said second path having a first portion configured such that when said portion of said operating device is received therein said portion of said operating device is held in said first portion of said first movement path and a second portion configured such that when said portion of the operating device is received therein, said portion of said operating device can be moved from said first portion of said first movement path into said second portion of said first movement path.

29. (original) The device of claim 28, wherein said first movement path is defined by a substantially L-shaped aperture.

30. (original) The device of claim 28, wherein said second path includes a third portion extending from said second portion and aligned with said second portion of the first movement path, said portion of the operating device moving along said third portion as it moves along said second portion of the first movement path.

31. (original) The device of claim 30, wherein said second path is substantially U-shaped.

32. (original) The device of claim 28, wherein said first and second support members are tubular members and said aperture defining said first movement path is a slot defined by said first tubular support member.

33. (original) The device of claim 28, wherein said aperture defining said second path is defined by a member secured to said second support member.

34. (original) The device of claim 28, wherein said first support member is connected with said drilling machine via said second support member and said second support member moves telescopically relative to said first support member when said drilling tool is drilling said hole.

35. (original) The drilling device of claim 26, further comprising a support device to be mounted on a drilling machine and support the machine against a part being drilled, at least when said undercut is being formed, said support device comprising a first support member and a second support member telescopically connected with said first support member such that said support device has a length that is variable and arranged such that said length reduces during drilling of said hole,

said first support member and said second support member each having a part of said control device, said parts of the control device each having an aperture through which a portion of said operating device extends which apertures define respective movement paths along which said portion of the operating device can pass, each movement path having an elongate portion extending substantially parallel to said axis of rotation and a transverse extending portion, said portion of the operating device being held in the transverse extending portion of said first support member movement path by said elongate portion of said second support member movement path as the second support member moves relative to said support member and said length reduces and being permitted to move from said transverse extending portion of the first support movement path into the elongate portion thereof when said second support member has moved

relative to said first support member a distance corresponding to said drilling depth so as to bring said transverse extending portion of said second support movement path into overlying relationship with said transverse extending portion of said first support movement path.